

COLORADO DIVISION OF WATER RESOURCES
818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80202

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in **BLACK INK**. No overstrikes or erasures unless initialed.

FOR: ☐ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
☐ A PERMIT TO INSTALL A PUMP

☐ REPLACEMENT FOR NO. _____
☐ OTHER _____
 WATER COURT CASE NO. _____

RECEIVED**AUG 20 1987**

DIV OF WATER RESOURCES
STATE ENGINEER
COLORADO

(1) APPLICANT - mailing addressNAME Howard Noble & Public ServiceSTREET 5900 E. 39th AveCITY Denver, Colo 80207
(State) (Zip)TELEPHONE NO. 329-1130**(2) LOCATION OF PROPOSED WELL**County ~~San Juan~~ PuebloSE 1/4 of the SW 1/4, Section 20Twp. 21 S, Rng. 64 W, 6th P.M.
(N.S) (E.W)**(3) WATER USE AND WELL DATA**Proposed maximum pumping rate (gpm) 0Average annual amount of ground water to be appropriated (acre-feet): 0Number of acres to be irrigated: 0Proposed total depth (feet): 20

Aquifer ground water is to be obtained from:

AlluviumOwner's well designation MW-1**GROUND WATER TO BE USED FOR:**

☐ HOUSEHOLD USE ONLY - no irrigation (0)
☐ DOMESTIC (1) ☐ INDUSTRIAL (5)
☐ LIVESTOCK (2) ☐ IRRIGATION (6)
☐ COMMERCIAL (4) ☐ MUNICIPAL (8)

☒ OTHER (9) ground water monitoring

DETAIL THE USE ON BACK IN (11)

(4) DRILLERName Hier Drilling Co.Street P.O. Box 250City Castle Rock, Colo 80104
(State) (Zip)Telephone No. 688-3012 Lic. No. 8

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 79236 A /

Basin _____ Dist. _____

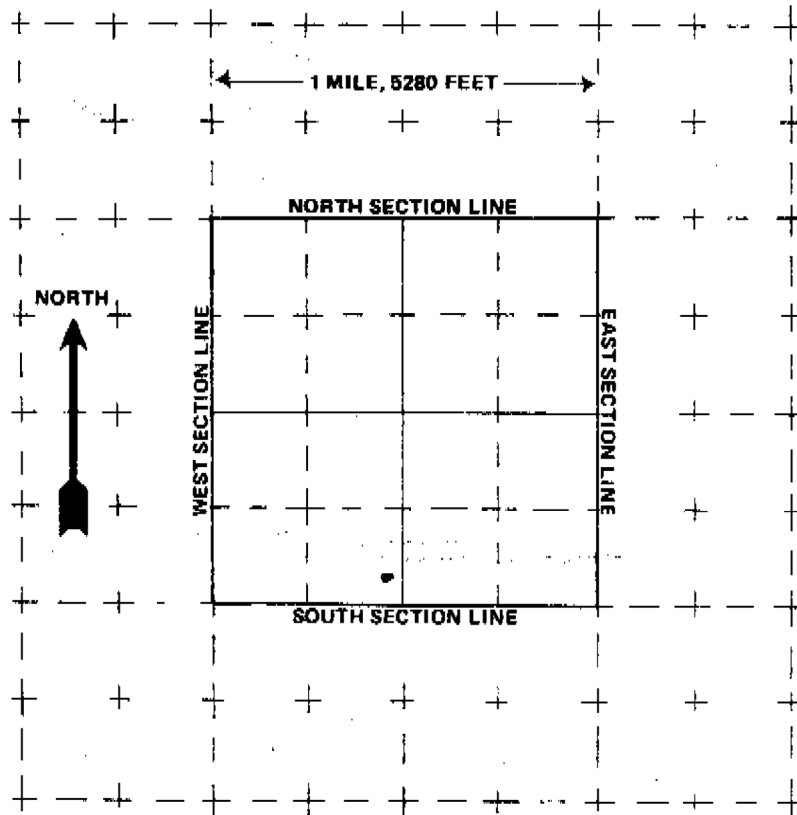
CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

- 1) APPROVED PURSUANT TO C.R.S. 37-90-137(2) TO SATISFY THE PERMIT REQUIREMENTS OF C.R.S. 37-90-138(3). USE OF THIS WELL IS LIMITED TO MONITORING WATER LEVELS AND/OR WATER QUALITY SAMPLING.
- 2) THIS WELL MUST BE EQUIPPED WITH A LOCKING CAP OR SEAL TO PREVENT WELL CONTAMINATION OR POSSIBLE HAZARDS AS AN OPEN WELL. THE WELL MUST BE KEPT LOCKED AT ALL TIMES EXCEPT DURING SAMPLING OR MEASURING.
- 3) RECORDS OF WATER LEVEL MEASUREMENTS AND WATER QUALITY ANALYSES SHALL BE MAINTAINED BY THE WELL OWNER AND SUBMITTED TO THE DIVISION OF WATER RESOURCES UPON REQUEST.
- 4) UPON CONCLUSION OF THE MONITORING PROGRAM, THE APPLICANT SHALL PLUG AND ABANDON THIS WELL IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR WATER WELL CONSTRUCTION AND PUMP INSTALLATION CONTRACTORS.
- 5) THE OWNER SHALL MARK THE WELL IN A CONSPICUOUS PLACE WITH APPROPRIATE WELL PERMIT NUMBER AND NAME OF THE AQUIFER. HE SHALL TAKE NECESSARY MEANS AND PRECAUTIONS TO PRESERVE THESE MARKINGS. 9/14/87

APPLICATION APPROVEDPERMIT NUMBER 032282-MDATE ISSUED AUG 25 1987EXPIRATION DATE AUG 25 1988BY John A. Danielson
(STATE ENGINEER)BY Nick Vander HorstI.D. 2-15 COUNTY 31

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the **CENTER SECTION** (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons:
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

360 ft. from South sec. line
(north or south)

2485 ft. from West sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION none

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: Public Service

No. of acres 309 Will this be the only well on this tract? no

(8) **PROPOSED CASING PROGRAM**

Plain Casing

6 in. from +2 ft. to 3 ft.

4 in. from +2 ft. to 15 ft.
Perforated casing

4 in. from 15 ft. to 20 ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

n/a

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): Public Service No. of acres: _____

Legal description: (see front) Comanche Steam Plant/Pueblo

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Ground water level and analysis

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used
<u>unknown</u>		

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

A. A. [Signature]
SIGNATURE OF APPLICANT(S)

WAEAD

COLORADO DIVISION OF WATER RESOURCES

1313 Sherman Street - Room 818
Denver, Colorado 80203

RECEIVED

OCT 23 1987

THIS FORM MUST BE SUBMITTED
WITHIN 60 DAYS OF COMPLETION
OF THE WORK DESCRIBED HERE-
ON. TYPE OR PRINT IN BLACK
INK.

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER

WATER RESOURCES
STATE ENGINEER
COLO.WELL OWNER Public ServiceSE 20 % of the SW 20 % of Sec.ADDRESS 5900 E. 39th Ave. Denver, CO 80207T. 21 S. 64 W. 6 P.M.DATE COMPLETED September 4, 1987

HOLE DIAMETER

8 in. from 0 to 11 ft. in. from to ft. in. from to ft.DRILLING METHOD Air rotaryCASING RECORD: Plain CasingSize 6 5/8 & kind Steel from +2.5 to 3.5 ft.Size 4 1/2 & kind PVC from +2 to 4 ft.Size 4 1/2 & kind PVC from 9 to 11 ft.Perforated CasingSize 4 1/2 & kind PVC from 4 to 9 ft.Size & kind from to ft.Size & kind from to ft.

GROUTING RECORD

Material CementIntervals 3.5' up to surfacePlacement Method HalliburtonGRAVEL PACK: Size 9-12Interval 11' up to 4'

TEST DATA

Date Tested , 1987Static Water Level Prior to Test ft.Type of Test Pump Length of Test Sustained Yield (Metered) Final Pumping Water Level

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	5	Brown clay	
5	7	Yellow sandy clay	
7	11	Brown clay & gray shale	
11		Bottom	
Volclay seal @ 4' up to 3.5'			
TOTAL DEPTH <u>11'</u>			

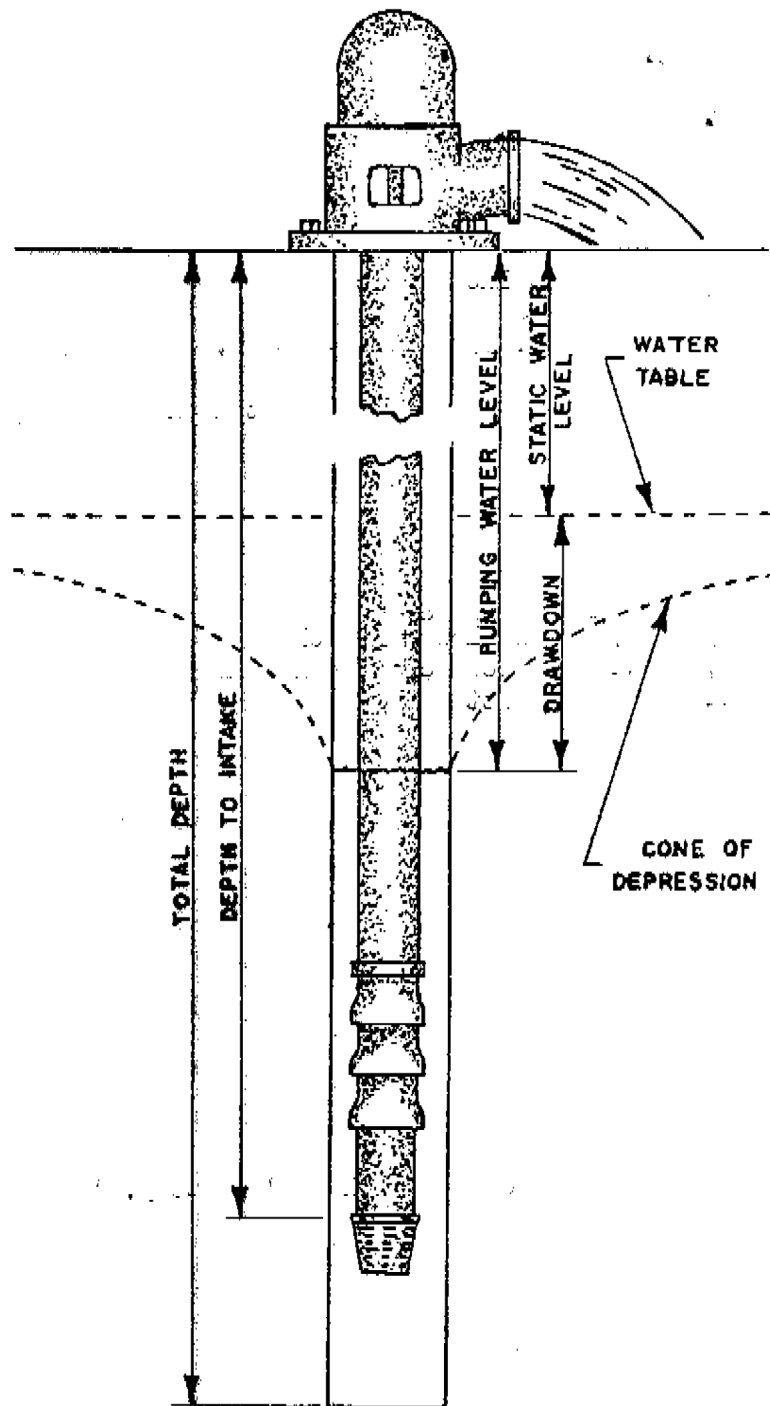
Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make _____
Type _____
Powered by _____ HP _____
Pump Serial No. _____
Motor Serial No. _____
Date Installed _____
Pump Intake Depth _____
Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested _____
Static Water Level Prior to Test _____
Length of Test _____ Hours
Sustained yield (Metered) _____ GPM
Pumping Water Level _____
Remarks _____



CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature George A. Wiers License No. 735

State of Colorado, County of Douglas SS

Subscribed and sworn to before me this September 24, 19 87.

My Commission expires: February 23, 19 90.

Notary Public Pat J. Mui

FORM TO BE MADE OUT IN QUADRUPPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

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AUG 20 1987

WR-100

COLORADO DIVISION OF WATER RESOURCES
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☒ A PERMIT TO CONSTRUCT A WELL
☐ A PERMIT TO INSTALL A PUMP
- ☐ REPLACEMENT FOR NO. _____
☐ OTHER _____
- WATER COURT CASE NO. _____

(1) APPLICANT - mailing address

NAME Howard Noble % Public Service
STREET 5900 E. 39th Ave.
CITY Denver, Colo. 80207
(State) (Zip)
TELEPHONE NO. 329-1130

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 79236B

Basin _____ Dist. _____

(2) LOCATION OF PROPOSED WELL

County S.W. ~~San~~ Pueblo
SW 1/4 of the SE 1/4, Section 20
Twp. 21 S, Rng. 64 W, 6th P.M.
(N.S) (E.W)

(3) WATER USE AND WELL DATA

Proposed maximum pumping rate (gpm) 0
Average annual amount of ground water to be appropriated (acre-feet): 0
Number of acres to be irrigated: 0
Proposed total depth (feet): 20
Aquifer ground water is to be obtained from:
Alluvium
Owner's well designation MW-2

GROUND WATER TO BE USED FOR:

- ☐ HOUSEHOLD USE ONLY - no irrigation (0)
☐ DOMESTIC (1) ☐ INDUSTRIAL (5)
☐ LIVESTOCK (2) ☐ IRRIGATION (6)
☐ COMMERCIAL (4) ☐ MUNICIPAL (8)
- ☒ OTHER (9) ground water monitoring
DETAIL THE USE ON BACK IN (11)

(4) DRILLER

Name Hier Drilling Co.
Street P.O. Box 250
City Castle Rock, Colo. 80104
(State) (Zip)
Telephone No. 688-3012 Lic. No. 8

CONDITIONS OF APPROVAL

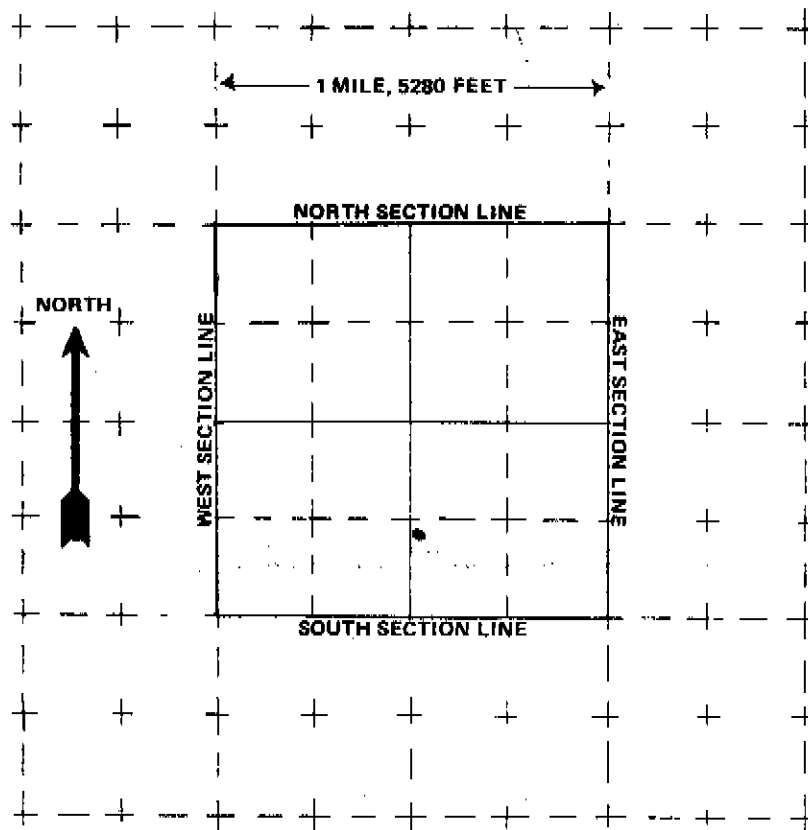
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- 1) APPROVED PURSUANT TO C.R.S. 37-90-137(2) TO SATISFY THE PERMIT REQUIREMENTS OF C.R.S. 37-90-138(3). USE OF THIS WELL IS LIMITED TO MONITORING WATER LEVELS AND/OR WATER QUALITY SAMPLING.
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5) THE OWNER SHALL MARK THE WELL IN A CONSPICUOUS PLACE WITH APPROPRIATE WELL PERMIT NUMBER AND NAME OF THE AQUIFER. HE SHALL TAKE NECESSARY MEANS AND PRECAUTIONS TO PRESERVE THESE MARKINGS. 4/24/87

APPLICATION APPROVED

PERMIT NUMBER 032283-M
DATE ISSUED AUG 25 1987
EXPIRATION DATE AUG 25 1988
John A. Danielson
(STATE ENGINEER)
BY Keith Vander Horst
I.D. 2-15 COUNTY 51

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the **CENTER SECTION** (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep
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1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

1115 ft. from South (north or south) sec. line
2625 ft. from East (east or west) sec. line

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION none

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: Public Service

No. of acres 309 Will this be the only well on this tract? no

(8) **PROPOSED CASING PROGRAM**

Plain Casing

6 in. from +2 ft. to 3 ft.

4 in. from +2 ft. to 15 ft.
Perforated casing

4 in. from 15 ft. to 20 ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

n/a

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): Public Service No. of acres: _____

Legal description: (see front) Comanche Steam Plant / Pueblo

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used.

Ground water level and analysis

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right

Used for (purpose)

Description of land on which used

unknown

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

[Signature]
SIGNATURE OF APPLICANT(S)

WAEAD

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1313 Sherman Street - Room 818
Denver, Colorado 80203

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WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER WATER RESOURCES
STATE ENGINEERWELL OWNER Public ServiceSW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Sec. 20ADDRESS 5900 E. 39th Ave. Denver, CO 80207T. #21 S. 64 W. 6 P.M.DATE COMPLETED September 4, 1987

HOLE DIAMETER

8 in. from 0 to 13 ft. in. from to ft. in. from to ft.DRILLING METHOD Air rotaryCASING RECORD: Plain CasingSize 6 5/8 & kind Steel from +2.5 to 3.5 ft.Size 4 1/2 & kind PVC from +2 to 6 ft.Size 4 1/2 & kind PVC from 11 1/2 to 13 ft.Perforated CasingSize 4 1/2 & kind PVC from 6 to 11 ft.Size & kind from to ft.Size & kind from to ft.

GROUTING RECORD

Material CementIntervals 3.5' up to surfacePlacement Method HalliburtonGRAVEL PACK: Size 8-12Interval 13' up to 4'

TEST DATA

Date Tested , 19 Static Water Level Prior to Test ft.Type of Test Pump Length of Test Sustained Yield (Metered) Final Pumping Water Level

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	10	Brown clay	
10	13	Brown sandstone	
13		Bottom	
Volclay seal @ 4' up to 3.5'			
TOTAL DEPTH <u>13'</u>			

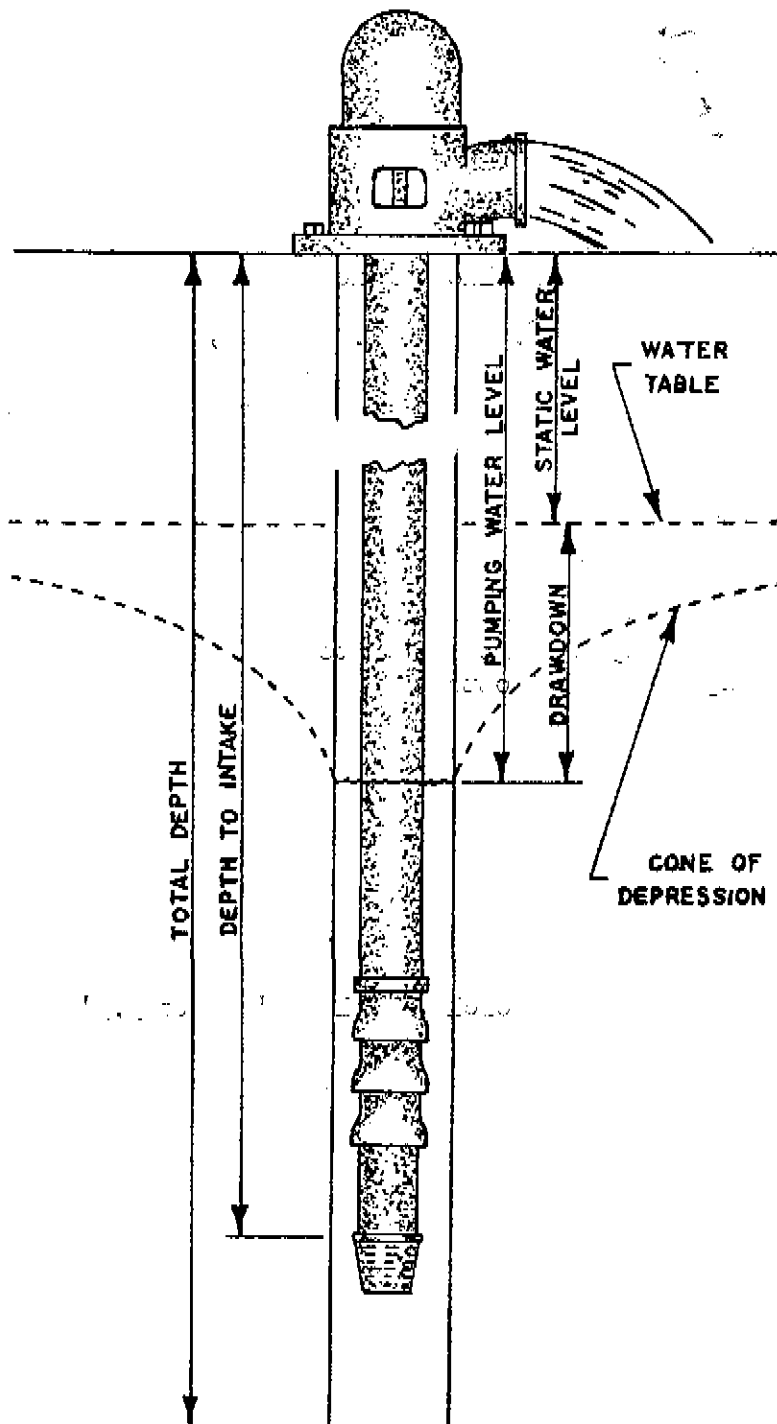
Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make _____
 Type _____
 Powered by _____ HP _____
 Pump Serial No. _____
 Motor Serial No. _____
 Date Installed _____
 Pump Intake Depth _____
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested _____
 Static Water Level Prior to Test _____
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CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature George R. Hies License No. 735

State of Colorado, County of Douglas SS

Subscribed and sworn to before me this 24 day of September, 19 90

My Commission expires: February 23, 1990

Notary Public Peter J. Hies

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JUN 20 1987
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STATE ENGINEER
COLORADO

() A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
FOR: () A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO. _____
() OTHER _____

WATER COURT CASE NO. _____

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Aquifer ground water is to be obtained from:

AlluviumOwner's well designation MW-4**GROUND WATER TO BE USED FOR:**

() HOUSEHOLD USE ONLY - no irrigation (0)
() DOMESTIC (1) () INDUSTRIAL (5)
() LIVESTOCK (2) () IRRIGATION (6)
() COMMERCIAL (4) () MUNICIPAL (8)

☒ OTHER (9) ground water monitoring

DETAIL THE USE ON BACK IN (11)

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Receipt No. 79236 D

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

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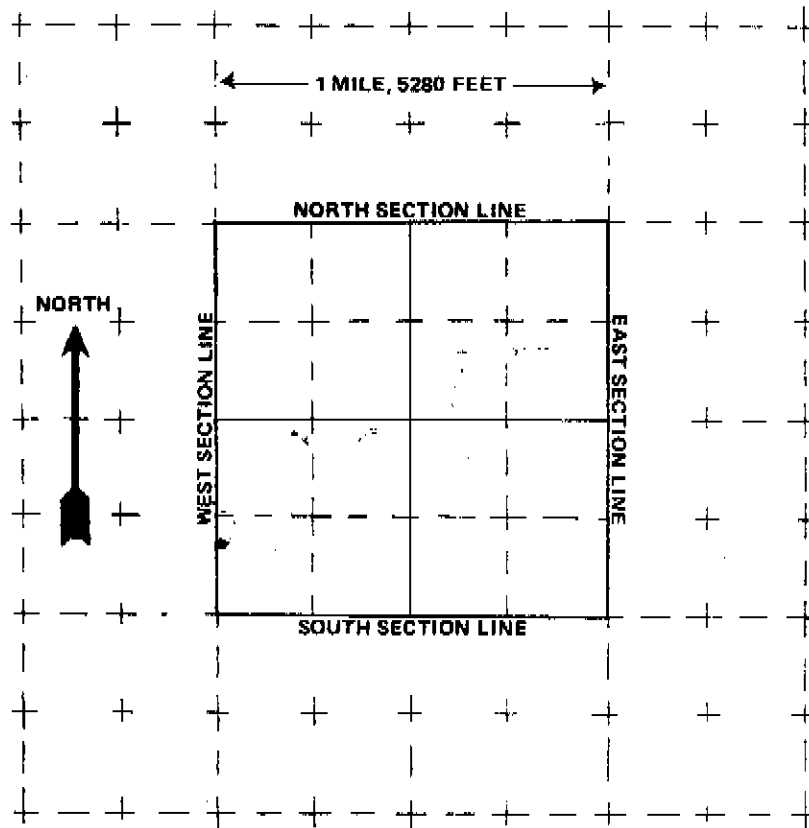
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APPLICATION APPROVEDPERMIT NUMBER 032285 - MDATE ISSUED AUG 25 1987EXPIRATION DATE AUG 25 1988

[Signature]
(STATE ENGINEER)

BY Neil Vander HorstI.D. 2-15 COUNTY 51

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1070 ft. from South sec. line
(north or south)

35 ft. from West sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION none

(7) TRACT ON WHICH WELL WILL BE LOCATED Owner: Public Service

No. of acres 209 Will this be the only well on this tract? no

(8) PROPOSED CASING PROGRAM

Plain Casing

6 in. from +2 ft. to 3 ft.

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Perforated casing

4 in. from 15 ft. to 20 ft.

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GROUTING RECORD

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27	29	Brown clay	
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Volclay seal @ 4' up to 3.5'			
TOTAL DEPTH <u>29'</u>			

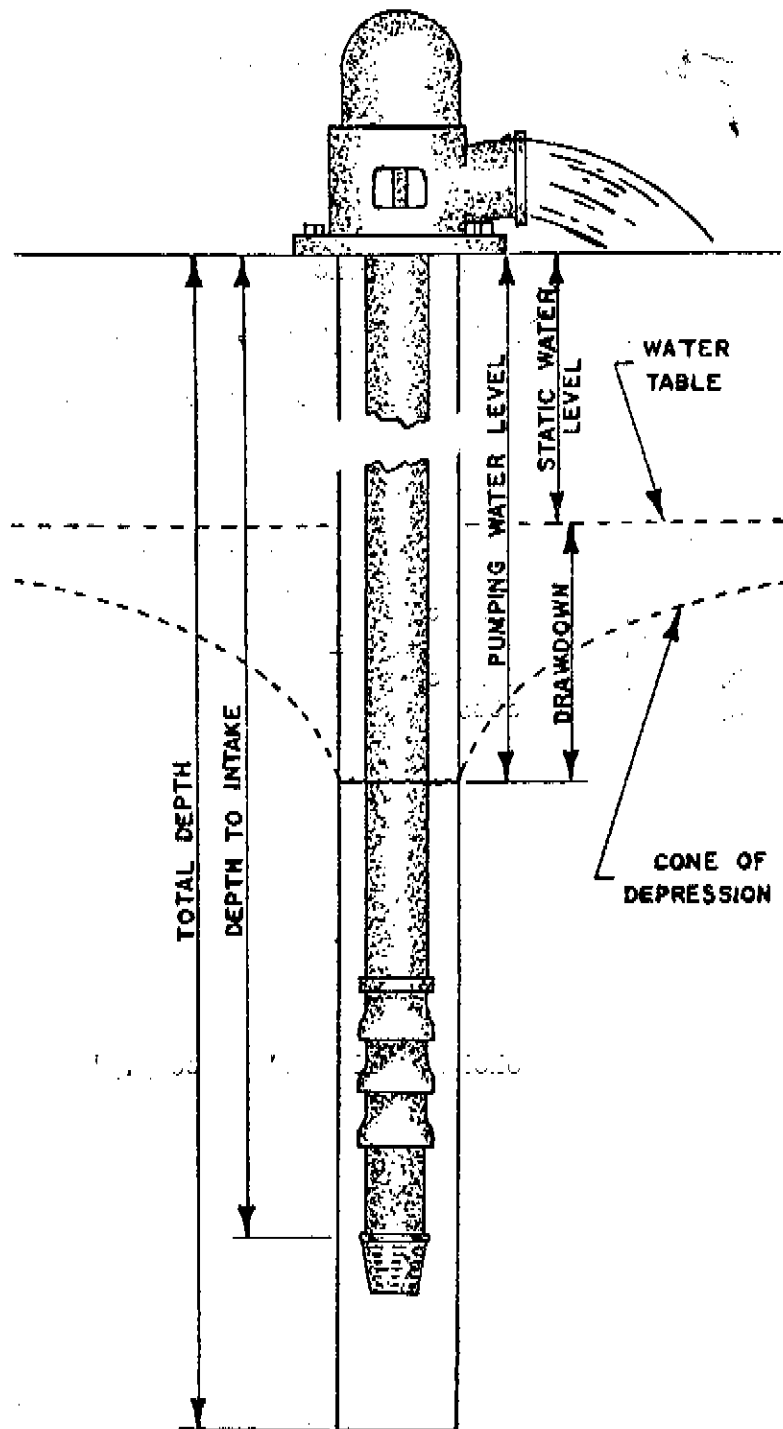
Use additional pages necessary to complete log.

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 Type _____
 Powered by _____ HP _____
 Pump Serial No. _____
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Signature George R. Hein License No. 735

State of Colorado, County of Douglas SS

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